CONTENTS

X-Ray investigation of benzyl 3,4-anhydro-2-O-mesyl-6-O-trityl-α-D-altropyranoside: ring conformations in the 3,4-anhydropyranose system	
J. W. Krajewski, P. Gluziński, and A. Banaszek (Warsaw, Poland)	1
Structural determination of alginic acid and the effects of calcium binding as determined by	
high-field n.m.r. C. A. Steginsky, J. M. Beale, H. G. Floss, and R. M. Mayer (Columbus, OH, U.S.A.)	11
C. A. Steginsky, J. M. Beale, H. G. Floss, and R. M. Mayer (Columbus, OH, U.S.A.)	11
PCILO quantum-mechanical relaxed conformational energy map of methyl 4-thio-α-maltoside in solution	
K. Mazeau (Grenoble, France) and I. Tvaroska (Bratislava, Czechoslovakia)	27
H-N.m.r. spectral assignments for two series of heparin-derived oligosaccharides	
A. Horne and P. Gettins (Nashville, TN, U.S.A.)	43
M. J. CC	
Mode of formation of quinoxaline versus 2[1H]-quinoxalinone rings from dehydro-p-erythorbic acid	
A. Mousaad, N. Rashed, H. A. Hamid, Y. El Kilany, and E. S. H. El Ashry (Alexandria,	
Egypt)	59
Spacer-modified saccharides for the regioselective photoaffinity labelling of the binding site of an immunoglobulin	
J. Lehmann and M. Scheuring (Freiburg, Germany)	67
Spacer-modified, photolabile tetrasaccharides as analogues of maltopentaose are versatile probes	
for porcine pancreatic alpha-amylase	
J. Lehmann and L. Ziser (Freiburg, Germany)	83
Synthesis, reactions, and crystal structure of 5-azido-6-O-benzoyl-3,5-dideoxy-3-fluoro-1,2-O-iso-	
propylidene-α-D-glucofuranose	
CK. Lee, H. Jiang, and L. L. Koh (Kent Ridge, Singapore)	99
Esters boriques d'alditols. Synthèse, structure et stabilité en solution dans l'eau	
A. Munoz and L. Lamandé (Toulouse, France)	113
A convenient method for the preparation of a variety of ¹³ C-substituted p-fructose phosphates using readily available enzymes of the glycolytic pathway	
K. T. Kuan, D. S. Weber, L. Sottile, and W. J. Goux (Richardson, TX, U.S.A.)	123
Notes	
Analysis of glycosaminoglycan-derived oligosaccharides using fast-atom-bombardment mass-spec- trometry	
R. J. Linhardt, H. M. Wang, D. Loganathan, D. J. Lamb, and L. M. Mallis (Iowa City, IA,	
U.S.A.)	137
Synthesis of a glycosidic affinity ligand for purification of cytidine-5'-monophosphosialate synthase	
J. Thiem, P. Stangier, P. Matschulat, and H. Paulsen (Hamburg, Germany)	147
Synthesis of 1,6-anhydro-2,3-dideoxy-\(\beta\)-erythro- and -threo-hex-2-enopyranose from 3,4-di-O-	
substituted glycals by a facile intramolecular Ferrier reaction	
H. B. Mereyala, K. C. Venkataramanaiah, and V. S. Dalvoy (Hyderabad, India)	151

A synthesis of 2,3-dideoxy-4,6:7,8-di-O-isopropylidene-D-gluco-oct-2-enono-1,5-lactone	
S. Valverde, S. Garcia-Ochoa, and A. M. Gomez (Madrid, Spain)	155
Reaction of Meldrum's acid with D-mannose and L-arabinose	
F. Z. Mata, M. B. Martínez, and J. A. Galbis Pérez (Sevilla, Spain)	159
Synthesis of p-trifluoroacetamidophenyl 2-acetamido-4-O-(2-acetamido-2-deoxy-β-D-glucopyrano-	
syl)-2-deoxy-β-p-mannopyranosiduronic acid, an artificial antigen corresponding to a di-	
saccharide repeating unit of the capsular polysaccharide of <i>Haemophilus influenzae</i> type e	
P. J. Garegg, S. Oscarson, and AK. Tidén (Stockholm, Sweden)	163
1.5. Outega, S. Ostatson, and T. H. Hoon (Stockholm) S. T.	
Structure of the acidic exopolysaccharide secreted by Rhizobium leguminosarum biovar. phaseoli	
CFN42	
A. Gil-Serrano, I. González-Jiménez, P. Tejero-Mateo, A. Sánchez del Junco, M. Megias,	
and M. J. Romero-Vázquez (Sevilla, Spain)	169
Some N-acyl derivatives of O-carboxymethylchitosan	
S. Hirano, K. Hayashi, and K. Hirochi (Tottori, Japan)	175
Papers	
Synthesis of aryl glycosides as vir gene inducers of Agrobacterium tumefaciens	
D. Delay, J. Cizeau, and F. Delmotte (Orléans, France)	179
Synthesis of 3,6-dideoxy-4-C-(4 ¹ -hydroxyethyl)hexopyranoses (yersinioses) from 1,6-anhydro-β-D-	
glucopyranose	
V. A. Zubkov, R. P. Gorshkova, Yu. S. Ovodov (Vladivostok, U.S.S.R.), A. F. Sviridov, and	
A. S. Shashkov (Moscow, U.S.S.R.)	189
The preparation, resolution, and phosphorylation of some benzyl ethers of myo-inositol: intermedi-	
ates for the synthesis of myo-inositol phosphates of the phosphatidylinositol cycle	
T. Desai, J. Gigg, and S. Payne (London, Gt. Britain)	209
Synthesis of trisaccharide methyl glycosides related to fragments of the capsular polysaccharide of	
Streptococcus pneumoniae type 18C	
A. M. P. van Steijn, J. P. Kamerling, and J. F. G. Vliegenthart (Utrecht, The Netherlands)	229
A. M. F. van Steijn, J. F. Kamering, and J. F. G. Vilegentian (Official, The Netherlands)	223
Synthesis of 2,6,7-trideoxy-7-C-(2,4-dichlorophenyl)-D-xylo-heptonic acid and 6-(2,4-dichlorophe-	
nyl)-D-xylo-2,3,4-trihydroxyhexanesulfonic acid	
J. Kuszmann and B. Podányi (Budapest, Hungary)	247
Synthesis of 7-(2,4-dichlorophenyl)-D-erythro-3-hydroxy-5-heptanolide, 6-(2,4-dichlorophenyl)-D-	
erythro-2,4-dihydroxyhexane-1-sulfonic acid, and 6-(2,4-dichlorophenyl)-D-erythro-2,4-di-	
hydroxyhexylphosphonic acid	
G. Hodosi, G. Galambos, B. Podányi, and J. Kuszmann (Budapest, Hungary)	269
Synthesis of lysine-containing fragments of the <i>Proteus mirabilis</i> O27 O-specific polysaccharide and	
neoglycoconjugates therefrom	
A. Ya. Chernyak, L. O. Kononov, P. Radha Krishna, N. K. Kochetkov (Moscow,	
U.S.S.R.), and A. V. Rama Rao (Hyderabad, India)	279
Preparation and characterization of N-[2-(glycosyloxy)ethyl]chitosan derivatives	
K. R. Holme and L. D. Hall (Vancouver, B.C., Canada)	291
R. R. Hollie and E. D. Hall (valicouver, B.C., Canada)	291
Solution interaction and rheology of N-[2-(glycosyloxy)ethyl]chitosan derivatives	
K. R. Holme, L. D. Hall, R. A. Speers, and M. A. Tung (Vancouver, B.C., Canada)	307

separa	hibition of dextran synthesis by acceptor reactions of dextransucrase, and the demonstration of a separate acceptor binding-site A. Tanriseven and J. F. Robyt (Ames, IA, U.S.A.)																321																						
Note																																							
Glucuronoxyl																																						id	
R. Ch	ern	iak	, I	_,	C.	N	Ac	ori	ris	, 2	ın	d	S.	Á	. 1	M	ey	/ei	(A	tla	m	ta	, (G/	4,	ι	J.5	5./	٨.)								331
Author index																																*		. ,	 ,				cl
Subject index																																		 					c3
Contents (vol.	22	5)															,																						c7